

**IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

**Listing of Claims**

1-19. (canceled)

20. (currently amended) An active reflector for use in indoor wireless data communication systems, comprising:

~~transceiving~~ ~~receiving~~ means for receiving signals from a first mobile terminal[[:]] and

~~transmitting~~ means for transmitting the received signals to a second mobile terminal in an omni-directional way for direct communication with high data rates between mobile terminals in an indoor environment;

wherein the active reflector is mounted above the first and second mobile terminals in the indoor environment to provide for an indirect line-of-sight connection between the active reflector and each mobile terminal; and

wherein the active reflector does not comprise a baseband processing and does not influence the logical set-up of the indoor wireless data communication system; and

~~said active reflector further comprises a first~~ further comprising one common antenna connected to the transceiving means and a local oscillator for controlling frequency division multiplexing of the signals transmitted and received via the common antenna

~~antenna connected to the receiving means and a second antenna connected to the transmitting means;~~

~~wherein the first and the second antenna are circular polarized antennae with the same polarization direction.~~

21. (currently amended) The active reflector according to claim 20, further comprising

signal processing means between said transceiving means and said local oscillator means for processing received and transmitted signals ~~receiving means and said transmitting means for processing received signals.~~

22. (currently amended) The active reflector according to claim 21, wherein the signal processing means comprises at least one gain block ~~between the receiving means and the transmitting means.~~

23. (previously presented) The active reflector according to claim 22, wherein the gain block comprises more than one sub-gain block, wherein at least one of the sub-gain blocks can be switched off.

24. (previously presented) The active reflector according to claim 21, further comprising signal filtering means for filtering the received signals or the received and amplified signals.

25-29. (Canceled)

30. (previously presented) The active reflector according to claim 21, wherein

said signal processing means comprises

frequency translating means for changing the received signal frequency to another frequency, and transmitting the signal at the changed frequency to the first and second mobile terminals.

31. (previously presented) The active reflector according to claim 20, further comprising  
communication means for communicating data with at least one further active reflector.

32. (previously presented) The active reflector according to claim 20, wherein power for the active reflector is supplied by a power outlet for an indoor lamp.

33. (previously presented) The active reflector according to claim 20, wherein the active reflector is integrated into a lamp.

34-38. (cancelled)